



52224/CAB/A400

BIDENS PLANT NAMED 'SUNBIDESUPA'

Botanical/~~commercial~~ classification:

Bidens ferulifolia/~~Bidens Plant~~

Varietal denomination: ~~ex~~ Sunbidesupa

5 BACKGROUND OF THE VARIETY

The present invention relates to a new and distinct variety of *Bidens ferulifolia*, named 'Sunbidesupa'.

There are some *Bidens* varieties commercially available that have a spreading growth habit with vivid yellow flowers. ~~They~~These are suitable for naturalistic planting and for planting in containers throughout the summer until the first frost. However, there are few ~~stably compact~~ *Bidens* varieties that are stably compact.

Accordingly, this invention was aimed at obtaining a new *Bidens* variety with a compact and beautiful mounding habit having dense yellow green foliage and large vivid yellow flowers.

Progress

The parent variety 'Golden Eye' (unpatented) used in open-pollination ~~to~~produce 'Sunbidesupa' is a cultivar having a compact growth habit and vivid yellow flowers. The seeds of 'Golden Eye' are commercially available in the UK.

20 The new *Bidens* variety was discovered by the inventors in October 2000, within a population of seedling progeny from open-pollination of *Bidens ferulifolia* cultivar 'Golden Eye', that were made from April to October 1999 ~~at~~in Yokaichi-shi, Shiga-ken, Japan. The new *Bidens* was selected on the basis of its very compact and unique mounding growth habit, and for having dense yellow green foliage and large vivid yellow flowers. The selected plant was propagated by the use of cutting and ~~then~~ grown in pots ~~on trial~~ in a glasshouse and in the field ~~at~~in Yokaichi-shi, Shiga-ken, Japan, from April to November 2001. The botanical characteristics of

52224/CAB/A400

the selected plant were examined, using a similar variety 'Goldie' (U.S. Plant Patent No. 11,261) and 'Sunbideki' (unpatented). As a result, it was concluded that the selected new Bidens variety is distinguishable from any other variety whose existence is known to us and is uniform and stable in its characteristics. This new variety of Bidens plant was named 'Sunbidesupa'.

In the following description, the color-coding is in accordance with the Horticultural Colour Chart of The Royal Horticultural Society, London, England (R.H.S.-Colour Chart).

SUMMARY OF THE VARIETY

This new variety is unlike any Bidens commercially available known to us as evidenced by the following unique combinations of characteristics.

1. Very compact and mounding growth habit with dense yellow green foliage.
2. Freely branching, having ~~the~~ stiff stems and very short internodes.
3. Large, vivid yellow inflorescences on ~~the~~ short peduncles.
4. ~~Commonly~~ Typically 8 ray ~~flowers~~ florets per inflorescence.

The new variety 'Sunbidesupa' differs from the similar variety 'Goldie' in the following points.

1. 'Sunbidesupa' grows ~~out~~ in a compact and mounding shape~~[[.]],~~ while 'Goldie' grows ~~out~~ in a broad and spreading shape.
2. The main stem of 'Sunbidesupa' is thicker than that of 'Goldie'.
3. The internode of 'Sunbidesupa' is shorter than that of 'Goldie'.
4. The diameter of the inflorescence of 'Sunbidesupa' is larger than that of 'Goldie'.
5. The average n[[N]]umber of ray ~~flowers~~ florets of 'Sunbidesupa' is 8, while that. ~~That of 'Goldie' is 5.~~
6. The shape of the apex shape of the ray ~~flower~~ florets of 'Sunbidesupa' is sinuate, while that. ~~That of 'Goldie' is acute.~~

52224/CAB/A400

7. The peduncle of 'Sunbidesupa' is shorter than that of 'Goldie'.

The new variety 'Sunbidesupa' differs from the similar variety 'Sunbideki' in the following points.

1. 'Sunbidesupa' grows ~~out~~ in a compact and mounding shape, while ~~[[.]]~~
5 'Sunbideki' grows ~~out~~ in a spreading shape.

2. The main stem of 'Sunbidesupa' is thicker than that of 'Sunbideki'.

3. The internode of 'Sunbidesupa' is shorter than that of 'Sunbideki'.

4. The diameter of the inflorescence of 'Sunbidesupa' is larger than that
of 'Sunbideki'.

- 10 5. The color of the ray ~~flower~~florets of 'Sunbidesupa' is vivid yellow (near
R.H.S. 7A), while that. That of 'Sunbideki' is vivid yellow (near R.H.S. 15A) with
vivid yellow (near R.H.S. 7A) margin.

6. The average ~~n~~[[N]]umber of ray ~~flowers~~florets of 'Sunbidesupa' is 8,
while that. That of 'Sunbideki' is 5.

- 15 7. The peduncle of 'Sunbidesupa' is shorter than that of 'Sunbideki'.

This new variety of Bidens plant 'Sunbidesupa' was asexually reproduced by
the use of cuttings ~~at~~in Yokaichi-shi, Shiga-ken, Japan, and the homogeneity and
stability thereof were confirmed. The instant plant retains its distinctive
characteristics and reproduces true to type in successive generations of asexual
20 reproduction.

DESCRIPTION OF THE DRAWINGILLUSTRATIONS

The depicted plants had been reproduced by the use of cuttings and were
photographed July 2003 while growing outdoors in 20 cm pots at an age of
approximately 4 months ~~at~~in Yokaichi-shi, Shiga-ken, Japan.

25 FIG. 1 illustrates a typical plant of the new variety of ~~[[b]]~~Bidens plant
'Sunbidesupa' while growing in a pot.

FIG. 2 illustrates a close view of typical foliage and blossoms of the new

52224/CAB/A400

variety of ~~[[b]]~~Bidens plant 'Sunbidesupa'.

DESCRIPTION OF THE NEW VARIETY

The botanical characteristics of the new and distinct variety of *Bidens*
ferulifolia named 'Sunbidesupa' 4 months after cutting, ~~are as follows and were~~
5 observed during May 2003 ~~at in~~Yokaichi-shi, Shiga-ken, Japan, are as follows:

Plant:

Growth habit.- very compact, mounding growth habit.

Plant height.- Approximately 19 cm.

Spreading area of plant.- Approximately 34 cm.

10 Stem:

Length. - Approximately 20 cm.

Thickness.- Main stem, approximately 3.7 mm.

Color.- Near R.H.S. 187A-(greyed-purple group~~dark grayish-red).~~

Pubescence.- Present.

15 Quantity of b[[B]]ranching.- Abundant. Freely branching.

Length of internode.- Approximately 17 mm.

Leaf:

Arrangement.- Opposite.

Length.- Approximately 2.9 cm.

20 Width.- Approximately 2.2 cm.

Shape/Margin.- Pinnatiparted; each segment is approximately 1.1 mm in
width.

Venation. - Pinnate venation. Color is near R.H.S. 144C (both sides).

~~Width of leaflet.- Approximately 1.1 mm.~~

25 Shape of a[[A]]pex shape of the leaflet.- Acute.

Shape of b[[B]]ase shape of the leaflet.- Acuminate.

Color.- Upper-side: Near R.H.S. 137C-(moderate yellow green). Lower-side:
Near R.H.S. 138B-(grayish yellow green).

52224/CAB/A400

Length of petiole.- Approximately 6.2 mm.

Diameter of petiole.- Approximately 0.8 mm

Color of petiole. - Near R.H.S. 137C

Texture.- Smooth.

5 Inflorescence:

Number of inflorescences per plant. - Approximately 60 inflorescences.

Type.- Single, daisy-type composite inflorescence.

Diameter.- Approximately 4.4 cm.

Depth. - Approximately 1.0 cm.

10 Number of ray flowerflorets.- CommonlyTypically 8 in a single whorl.

Shape of ray floret. - Elliptic.

Margin of ray floret. - Entire.

Texture. - Smooth.

~~Apex~~Shape of apex of ray flowerfloret.- Sinuate.

15 ~~Base~~Shape of apex of ray flowerfloret.- Round.

Length of ray flowerfloret.- Approximately 19.0 mm.

Width of ray flowerfloret.- Approximately 13.5 mm.

Color of ray flowerfloret.- Upper-side: Near R.H.S. 7A (~~brilliant greenish yellow~~). Lower-side: Near R.H.S. 7A (~~brilliant greenish yellow~~) with near R.H.S.

20 166C (~~light brown~~)-venation.

Diameter of ~~disk~~whole disc.- Approximately 1.0 cm.

Length of ~~disk~~disc flowerfloret.- Approximately 6.1 mm.

Number of disc florets per inflorescence. - approximately 100

Diameter of disc floret. - Approximately 1.0 mm.

25 Texture of disc floret. - Smooth.

Shape of disc floret. - Tubular.

Diameter of involucre.- Approximately 12.5 mm. [[A]]about 26 phyllaries in three whorls.

Phyllaries:

52224/CAB/A400

- Shape. - Lanceolate.
- Length. - Approximately 3.0 mm.
- Width. - Approximately 1.0 mm.
- Shape of apex. - Obtuse.
- 5 Shape of base. - Rotund.
- Margin. - Entire.
- Texture. - Smooth.
- Color. - Near R.H.S. N200A
- Color of disk flower floret. - ~~Near R.H.S. 14A (vivid yellow).~~
- 10 Fragrance. - Absent.
- Peduncle. - Approximately 1.3 mm in thickness, and 0.9 cm in length.
- Color of peduncle. - ~~Near R.H.S. 187A (dark grayish-red)~~ greayed-purple group.
- Texture of peduncle. - Smooth.
- Buds:
- 15 Diameter. - Approximately 5.9 mm.
- Length. - Approximately 6.9 mm.
- Shape. - Globose.
- Color. - Near R.H.S. 151C
- Reproductive organs:
- 20 Androecium. - present on the ~~disk~~ disc florets only.
- Number of stamen. - Five per disc floret.
- Anther shape. - Elongated.
- Anther length. - Approximately 1.8 mm.
- Anther color. - ~~Near R.H.S. 200B (dark grayish-reddish-brown group).~~
- 25 Amount of pollen. - Moderate.
- Pollen color. - ~~Near R.H.S. 14A (vivid yellow)~~ orange group.
- Gynoecium. - Present on ~~disk~~ disc and ray florets ~~only~~.
- Pistil number. - One per ray and disc floret.
- Pistil length. - Approximately 5.5 mm.

52224/CAB/A400

Stigma shape.- Recurved, bipartite.

Stigma length.- Approximately 1.4 mm.

Color of stigma.- Near R.H.S. 14A-(~~vivid yellow-orange~~ group).

Style length.- Approximately 4.0 mm.

5 Style color.- Near R.H.S. 3C-(~~light yellow green~~ group).

Ovary color.- Near R.H.S. 145C-(~~brilliant yellow green~~ group).

Seed.- Few seeds development hashave been observed. The color of seeds is black, near R.H.S. N186A-(~~black~~). Seeds are a[[A]]pproximately 9 mm in length, 0.5 mm in width, and haveing two awns at the apex.

10 Blooming period.- Start at the beginning of April to the end of November in the southern-Kanto area, Japan. A bloom commonly lasts 6-7 days on the plant.

Physiological and ecological characteristics:

Hardiness to cold.- Good.

Hardiness to heat.- Good.

15 Resistance to disease.- Good.

Resistance to pests.- Good.

The new variety of Bidens plant is most suitable for hanging baskets, potted containers of all types, borders, and landscape.

52224/CAB/A400

It is claimed:

A new and distinct variety of *Bidens ferulifolia* plant named 'Sunbidesupa',
substantially as herein illustrated and described.

52224/CAB/A400

BIDENS PLANT NAMED 'SUNBIDESUPA'

ABSTRACT OF THE DISCLOSURE

Disclosed herein is a new and distinct variety of *Bidens ferulifolia*, named 'Sunbidesupa' having a very compact and mounding growth habit with dense yellow green foliage. The ~~Bidens variety~~ 'Sunbidesupa' has freely branching, stiff stems and very short internodes[.]. ~~It appears dense and bushy~~ yellow green foliage, ~~having~~ and large, vivid-yellow inflorescences, ~~commonly~~ with typically 8 ray florets in a whorl per inflorescence, on ~~the~~ short peduncles. The plant exhibits good resistance to heat, cold, disease and pests.